

Sepehr Dehdashtian

(517)7210269 | sepehr@msu.edu | [Website](#) | [Google Scholar](#) | [LinkedIn](#) | [GitHub](#)

Education

Michigan State University | Ph.D. in Computer Science Jun. 2022 – Present

- **Focus:** Trustworthy AI, Fairness, Generative AI, Representation Learning, Multimodal Models
- **GPA:** 4.0/4.0

Sharif University of Technology | M.Sc. Electrical Engineering Sep. 2018 – Feb. 2021

- **Thesis:** Blind Recognition of Channel Codes Using Deep Neural Networks
- **GPA:** 3.87/4.0

Shahid Chamran University of Ahvaz | B.Sc. in Electrical Engineering Sep. 2014 – Aug. 2018

- **GPA:** 3.93/4.0 (ranked 1st)

Publications

The Dark Side of Dataset Scaling: Evaluating Racial Classification in Multimodal Models 2024

Abeba Birhane*, [Sepehr Dehdashtian](#)*, Vinay Prabhu, Vishnu Naresh Boddeti

ACM Conference on Fairness, Accountability, and Transparency (FAccT) 2024

Utility-Fairness Trade-Offs and How to Find Them 2024

[Sepehr Dehdashtian](#), Bashir Sadeghi, Vishnu Naresh Boddeti

IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2024

FairerCLIP: Debiasing CLIP's Zero-Shot Predictions using Functions in RKHSs 2024

[Sepehr Dehdashtian](#)*, Lan Wang*, Vishnu Naresh Boddeti

International Conference on Learning Representations (ICLR) 2024

On characterizing the trade-off in invariant representation learning 2022

Bashir Sadeghi, [Sepehr Dehdashtian](#), Vishnu Naresh Boddeti

Transactions on Machine Learning Research (TMLR)

Deep-Learning Based Blind Recognition of Channel Code Parameters over Candidate Sets under AWGN and Multi-Path Fading Conditions 2021

[Sepehr Dehdashtian](#), Matin Hashemi, Saber Salehkaleybar

IEEE Wireless Communications Letters

Awards & Honors

- TMLR Outstanding Paper Award Runner-Up 2023
- TMLR Featured Certification Award 2023
- Ranked 2nd GPA the graduating class of 2021 | Sharif University of Technology 2021
- Ranked 5th out of 30,000 | Iranian University Entrance Exam for Master's degree 2018
- Ranked 1st GPA the graduating class of 2018 | Shahid Chamran University of Ahvaz 2018
- National Graduate and Undergraduate Full Scholarships 2014 – 2021

Technical Skills

Languages: Python, C++, CUDA, Verilog, VHDL

ML Frameworks: PyTorch, PyTorch-Lightning, TensorFlow, Keras, OpenCV, Scikit-Learn

Others: RevealJS, Git, Linux, Windows, Microsoft Office, LaTeX, MATLAB, FPGA

Professional Experience

Research Assistant at Michigan State University

Jun. 2022 – Present

- Developed machine learning models with fairness and debiasing constraints
- Defined and estimated two types of utility versus fairness trade-offs in ML models
- Published research papers in top-tier conferences: ICLR'24, CVPR'24

Research Assistant at Sharif University of Technology

Nov. 2018 – Feb. 2021

- Developed deep learning based methods for blind recognition of channel codes
- Published a research paper in IEEE Wireless Communication Letters

Student Intern at Radaq Company

Jun. 2017 – Aug. 2017

- Designed a data logger system for agricultural sensors
- Designed a website for the data logger system using PHP and HTML

Projects

- Mitigating Political Bias in Pre-Trained Large Language Models 2023
- Visually Explaining Fair Representation Learning—A Model Perspective 2023
- Video Synopsis using OpenCV in Python 2019

Teaching

- Verilog Tutor | Shahid Chamran University 2017
- Communication Systems Tutor | Shahid Chamran University 2015

Services & Activities

- Scientific-Students Associations of Clean Energy | Deputy Secretary 2016
- Scientific-Students Associations of EE Department | Member 2015